CALIFOIRNIA ENERGY COMMISSION
Water/Wastewater Facilities
Pumps and Motors Projects

Pump and blower motors account for 80 to 90% of the energy costs in water supply and wastewater treatment facilities. They often run twenty-four hours a day. Many plant operators have reduced energy costs through pump and motor system upgrades.

The United Water Conservation District replaced two pump and motor assemblies with new high efficiency pumps and motors. This reduced demand by 84.3 kilowatts, creating an annual savings of $84,000. The facility's total investment was paid back in one year. The City of Ontario completed a similar motor replacement project that saves their municipal $278,500 annually. Ontario's savings will pay for their project in two years of operation.

Purchase and operation of premium pumping systems is a significant expense. However, buying premium pumps and motors is cost effective in the long run. More information on choosing energy-efficient pumps and motors can be found on the Energy Commission website at:

http://www.energy.ca.gov/process/pubs/motors.pdf

Grant Program Participants:

- Bear Valley Community Services District
- City of Ontario
- Contra Costa Water District
- Hopland Public Utilities District
- Inland Empire Utilities Agency
- Monte Vista Water District
- Moulton Niguel Water District
- Novato Sanitary District
- Padre Dam Municipal Water District
- Palmdale Valley District

- Placer County
- Tahoe-Truckee Sanitation Agency
- Town of Apple Valley
- Trabuco Canyon Water District
- United Water Conservation District
- Victor Valley Water District
- City of Yuba City

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For further information on this and other water/wastewater technology, please visit the Energy Commission Water/Wastewater Process Energy website, located at::

http://www.energy.ca.gov/process/pubs_list.html#water